

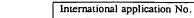


PATENT COOPERATION TREATY

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To: MARK T. STARR UNISYS CORPORATION UNISYS WAY, MS/8E-114 BLUE BELL, PA 19424-0001. SEP 2 0 2004 Patent Department Date of Mailing (day/month/year) Applicant's or agent's file reference PCT 101000000 PT 101000000 PCT 101000000							
MARK T. STARR UNISYS CORPORATION UNISYS WAY, MS/8E-114 BLUE BELL, PA 19424-0001. SEP 2 0 2004 Patent Department Date of Mailing (day/month/year) Applicant's or agent's file reference REPLY DUE within 2 months/days from							
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International application No. International filing date (day/month/year) Priority date (day/month/year)							
PCT/US02/41546 27 December 2002 (27.12.2002)							
PC17US02/41546 27 December 2002 (27.12.2002) International Patent Classification (IPC) or both national classification and IPC							
·							
IPC(7): G06F 9/445 and US Cl.: 717/174 Applicant							
Аррисан							
UNISYS CORPORATION							
1. This written opinion is the first (first, etc.) drawn by this International Preliminary Examining Authority.							
2. This opinion contains indications relating to the following items:							
This opinion contains indications relating to the following licins.							
I Basis of the opinion							
II Priority							
III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
IV Lack of unity of invention							
V Reasoned statement under Rule 66.2 (a)(ii) with regard to novelty, inventive step or industrial applicability;							
citations and explanations supporting such statement							
VI Certain documents cited							
VII Certain defects in the international application							
VIII Certain observations on the international application							
3. The applicant is hereby invited to reply to this opinion.							
When? See the time limit indicated above. The applicant may, before the expiration of that time limit, request							
this Authority to grant an extension. See rule 66.2(d).							
How? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.							
Also For an additional opportunity to submit amendments, see Rule 66.4.							
For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis.							
For an informal communication with the examiner, see Rule 66.6							
If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.							
4. The final date by which the international preliminary							
examination report must be established according to Rule 69.2 is: 27 April 2005 (27.04.2005)							
Name and mailing address of the IPEA/US Mail Stop PCT Arm: IPEA/US Authorized officer							
Commissioner for Patents							
P.O. Box 1450							
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Telephone No. (703) 305-9700							

Form PCT/IPEA/408 (cover sheet)(July 1998)



WRITTEN OPINION

PCT/US02/41546

I.	Basis of the opin	nion ·				
1.	With regard to the	elements of the international application:*				
	the descript pages 1-18 pages NONI	ional application as originally filed ion:, as originally filed E, filed with the demand E, filed with the letter of				
	the claims: pages 19-21 pages NONI pages NONI pages NONI	as amended (together with any statement) under Article 19 , filed with the demand				
	pages NONI	s:, as originally filed, filed with the demand, filed with the letter of e listing part of the description:				
	pages <u>NONE</u> pages <u>NONE</u> pages <u>NONE</u>	as originally filed filed with the demand filed with the letter of				
	2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is					
	the language	e of a translation furnished for the purposes of international search (under Rule23.1(b)). e of publication of the international application (under Rule 48.3(b)). e of the translation furnished for the purposes of international preliminary examination(under Rules 55.3).				
3.	With regard to an	ny nucleotide and/or amino acid sequence disclosed in the international application, the written on the basis of the sequence listing:				
	contained in the international application in printed form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.					
4.		nents have resulted in the cancellation of:				
5.	the c	lescription, pages NONE laims, Nos. NONE lrawings, sheets/fig NONE				
	beyond the di	has been drawn as if (some of) the amendments had not been made, since they have been considered to go sclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).				
* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed."						

Form PCT/IPEA/408 (Box I) (July 1998)

WR	ITTEN	OPIN	ION

International application No. PCT/US02/41546

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
1. STATEMENT								
Novelty (N)	Claims	6,8,9,15-20	YES					
		1-5,7,10-14,21,22	NO					
Inventive Step (IS)		6,8,9,15-20	YES					
·	Clanis	1-5,7,10-14,21,22	NO					
Industrial Applicability (IA)	Claims	NONE	YES					
· .	Claims	1-22 ·	NO					
 CITATIONS AND EXPLANATIONS Please See Continuation Sheet Claims 1-22 lack industrial applicability as defined by PCT Article 33(4). For failing to be recorded on a computer readable medium and execute on a computer. Claims 6,8,9,15 - 20 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest The details of the optimization algorithm of the claimed invention which is the heart of the invention. 								
NEW CITATIONS	*************							
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WRITTEN OPINION

International application No. PCT/US02/41546

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

TIME LIMIT:

The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.

V. 2. Citations and Explanations:

Claims 1- 5, 7,10-14, 21-22 novelty under PCT Article 33(2) as being anticipated by USPN #6,421,778 Wood et al. (Claim 19 being dependent on claim 9).

1. A method of predicting a quantity of a resource required for the deployment of a software application on a computing system, comprising the steps of providing

historical resource utilisation data for deployment of software applications on computing systems, providing a value for a parameter of the computing system relevant to resource utilisation, providing a value for a parameter of the software application relevant to resource utilisation, and utilising the historical resource utilisation data and

parameter values to predict the quantity of the resource required for deployment of the software application.

Examiner's Response

Wood see Abstract and Figures 2, 3 and 5. Wood calculates modular application independent program for scalable program with parameter values. Wood sets default values (col 6, lines 50-60) and recalculates (col 6, lines 60-70).

2. A method in accordance with claim 1, wherein the historical resource utilisation data includes parameter values of the computing systems and parameter values of the software applications historically deployed. Examiner's Response

Wood Abstract uses parameters and stores values as per figure 3.

3. A method in accordance with claim 2, wherein the historical resource utilisation data includes statistics, the statistics being values of the quantities of resources used in the historical deployment. Examiner's Response

Wood Abstract ability to make scaleable as per claim 1.

4. A method in accordance with claim 3, wherein the historical resource utilisation data includes at least two parameter/statistic pairs for historical deployments.

Examiner's Response

Wood Abstract parameters passed to functions as per figure 2.

5. A method in accordance wit;:. claim 3, wherein the relationship between the parameter and statistic pairs is derived by applying a statistical, model to the parameter/statistic pairs.

Form PCT/IPEA/408 (Supplemental Box) (July 1998)

WRITTEN OPINION

International application No. PCT/US02/41546

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Examiner's Response

Figures 2 and 3 calculation of settings.

7. A method in accordance with, claim 5, wherein the relationship between the statistic and the parameter or n parameters is determined by assuming that the relationship

between the parameter/statistic pairs takes the form of a straight line.

Examiner's Response

Calculation of baseline(linear) Figure 3.

10. A computing system arranged to facilitate the prediction of a statistic for use in the prediction of resources required for the deployment of a software application, comprising, a database arranged to provide historical resource utilisation data for deployment of software applications on computing systems, means for providing a value for a parameter of the computing system relevant to resource utilisation, and a value for a parameter of the software application relevant to resource utilisation, and computation means arranged to utilise the historical resource utilisation data and parameter values to predict the quantity of the resource required for deployment of the software application.

Examiner's Response

As per claim 1

11. A system in accordance with claim 10, wherein the historical resource utilisation data includes parameter values of the computing systems and parameter values of the software applications historically deployed.

Examiner's Response

As per claim 2.

12. A system in accordance with claim 11, wherein the historical resource utilisation data includes statistics, the statistics being values of the quantities of resources used in the historical deployment.

Examiner's Response

As per claim 3.

13. A system in accordance with claim 12, wherein the historical resource utilisation data includes at least two parameter/statistic pairs for historical deployments.

Examiner's Response

As per claim 3.

14. A system in accordance with claim 13, wherein the relationship between the parameter and statistic pairs is derived by applying a statistical model to the parameter/statistic pairs.

Examiner's Response

As per claim 5.

21. A method for building a model for use in the prediction of resources required for the deployment of a software application, the method comprising the steps of collecting historical resource utilisation data for deployment of software applications on computing systems, and storing the historical resource usage data.

Examiner's Response

As per claim 1.

22. A model comprising historical resource utilization data for deployment of software applications on computing systems, the data being stored in a database.

Examiner's Response

Figure 3 store historic values in Table Data store and Optimal Settings in data store as well as Temporary Data Store use. Also see figure 6a, 6b, 6c, 6d, 6e and 7b.

Claims 1-22 novelty under PCT Article 33(2) as a lack of unity for failing to be on a computer readable medium and executing on a computer.

Claims 6,8,9,15-20 have a positive statement over wood for disclosing the relationship and definitions of the calculation parameters of the equation used as the basis of the invention.

----- NEW CITATIONS -----